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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,952	04/12/2004	Philip James Ions	T2211-9059US01	2378
181 75	90 03/15/2005		EXAMINER	
MILES & STOCKBRIDGE PC			KASTLER, SCOTT R	
1751 PINNACLE DRIVE SUITE 500			ART UNIT	PAPER NUMBER
MCLEAN, VA 22102-3833			1742	

DATE MAILED: 03/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	111/			
Office Action Commons		10/821,952	IONS ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Scott Kastler	1742				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by the property of the office later than three months after the period patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a con. , a reply within the statutory minimum of the period will apply and will expire SIX (6) MC statute, cause the application to become A	a reply be timely filed nirty (30) days will be considered timely DNTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).				
Status	•						
1)□	Responsive to communication(s) filed on						
2a)□		This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)  Claim(s) 1-29 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-29 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers						
<ul> <li>9) ☐ The specification is objected to by the Examiner.</li> <li>10) ☒ The drawing(s) filed on 12 August 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>							
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) D Notic 3) D Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94) nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date	8) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO 	)-152)			

Art Unit: 1742

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burrow. Burrow teaches a direct smelting plant with water cooled walls (14) including, components a-i of instant claim 1 recited in claim 1 of Burrow, the solids feed means of instant claims 2-10 disclosed at (27) of the drawings, and claims 11-13 of Burrow for example, the crane means of instant claims 18 and 19 disclosed at col. 5 lines 30-50 for example, and the tapping means of claims 20-25 disclosed at claims 6 and 14-17 of Burrow for example, thereby showing all aspects of the above claims except the use or specific placement of platforms or doors for allowing the plant to be accessible by operators, although Burrow does state, at col. 1 lines 63-65 for example that necessary access and handling facilities should be provided for operation of the plant, and also, at col. 5 lines 43-50 for example, that access doors for access to the interior of the vessel should be provided, although Burrow does not state where these platforms (access facilities) and doors should be placed in the plant. However, because the smelting plant of Burrow is arranged and operated in substantially the same manner as that of the instant claims, and would therefore require operators at substantially the same locations as in the instant claims, motivation to place the platforms and doors suggested by Burrow in the locations recited by the instant claims as required for efficient operation of the plant of the type disclosed by Burrow, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Related patent publication US 2004/0256773 A1 to Dry et al is also cited as an example of direct smelting plants.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Kastler Primary Examiner Art Unit 1742